第一図 Fig. 1
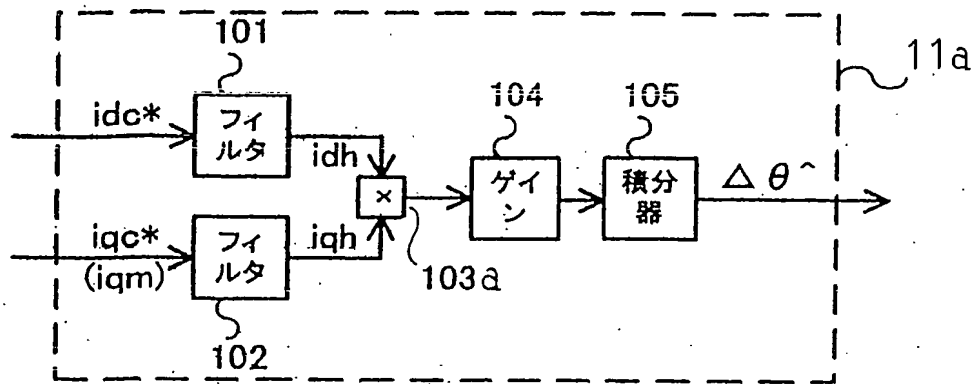
[FIG. 1]

      1:   VELOCITY CONTROL UNIT

      2:   CURRENT CONTROL UNIT

      3:   dq/uvw COORDINATE CONVERTING UNIT

      4:   INVERTER

      5:   MOTOR

      6:   uvw/dq COORDINATE CONVERTING UNIT

      7:   VELOCITY CALCULATION UNIT

      8:   DETECTOR

      11:   AXIAL MISALIGNMENT DETECTING UNIT

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第2図 Fig.2

[FIG. 2]

第3図　Fig.3

(a)

(b)

[FIG. 3 (a)]

      a. iqh: q-axis CURRENT ERROR

      b. idh: d-AXIS SUPERIMPOSED SIGNAL
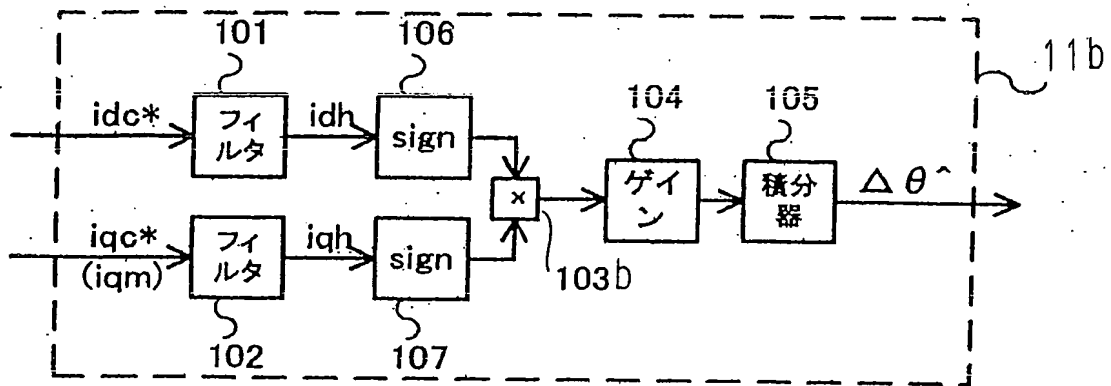
      c. iqm: TORQUE CURRENT ERROR

[FIG. 3 (b)]

      a. iqm: TORQUE CURRENT ERROR

      b. idh: d-AXIS SUPERIMPOSED SIGNAL

      c. iqh: q-axis CURRENT ERROR

第4図 Fig. 4

[FIG. 4]

    101:    FILTER

    102:    FILTER
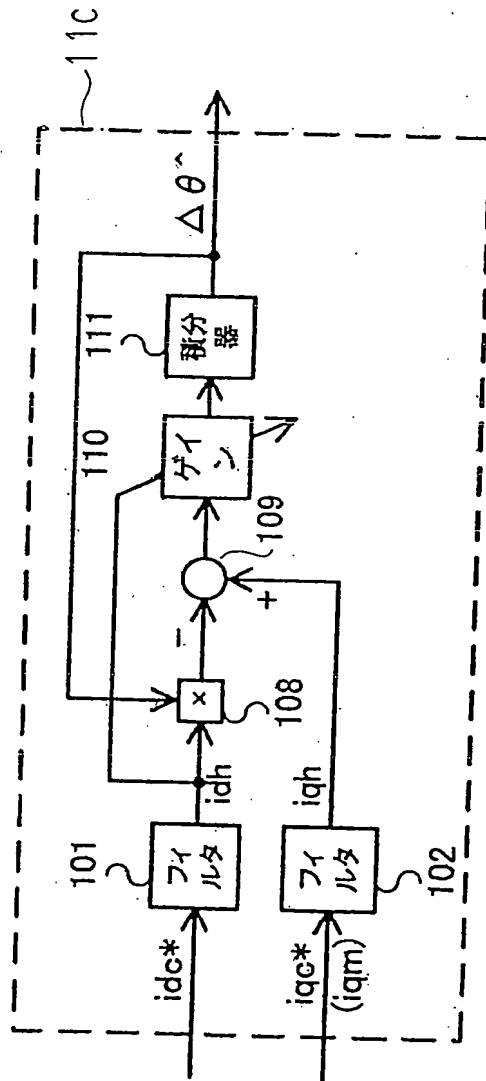
    104:    GAIN UNIT

    105:    INTEGRATOR

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第5図   Fig. 5

[FIG. 5]

101: FILTER

102: FILTER

110: GAIN UNIT

111: INTEGRATOR

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第6図　Fig.6
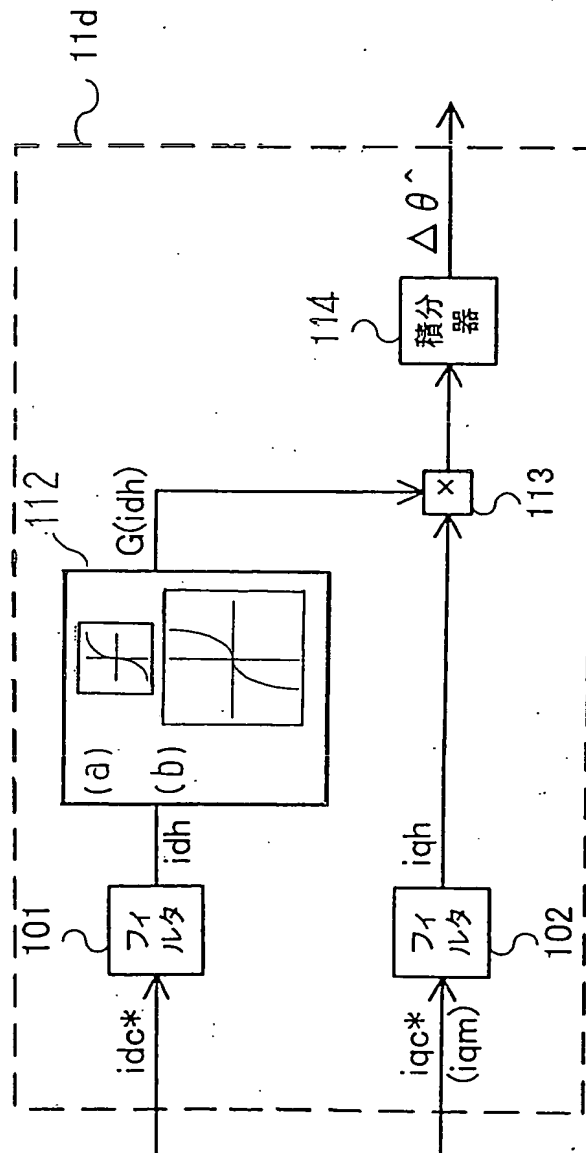
[Fig. 6]

    101: FILTER

    102: FILTER

    114: INTEGRATOR

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第7図 Fig.7
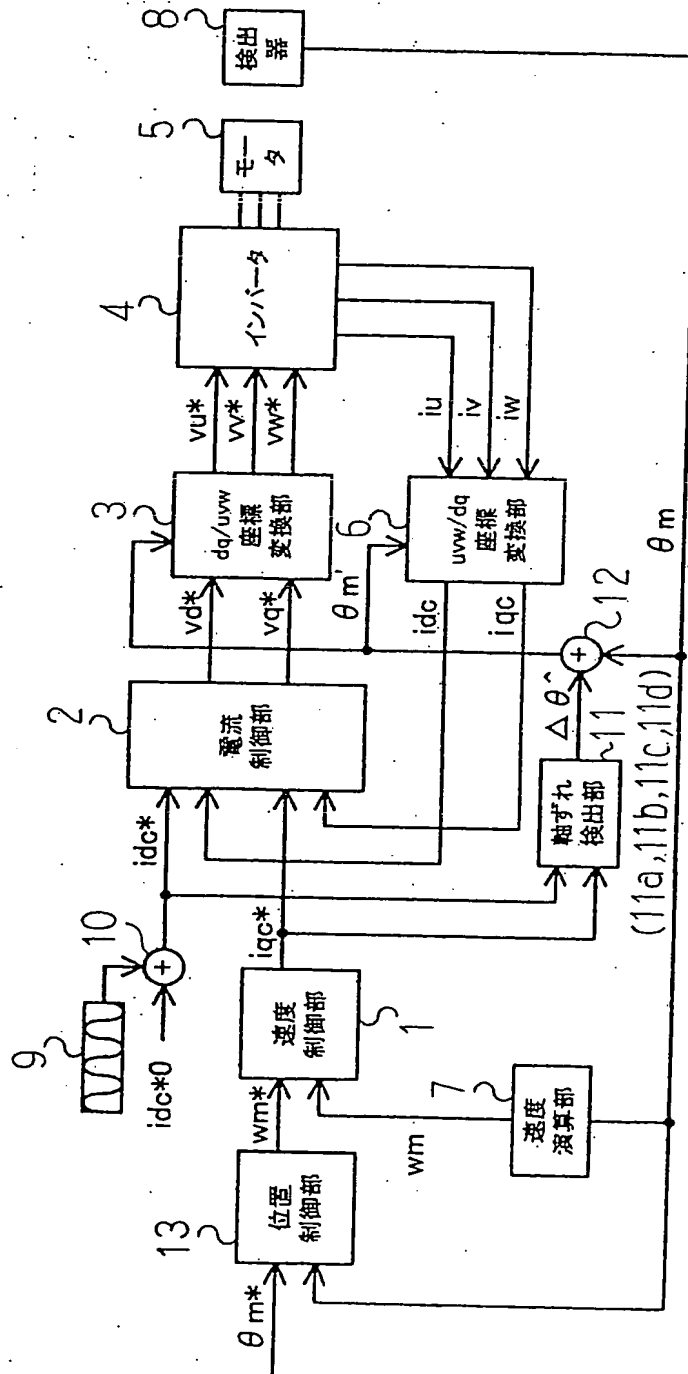
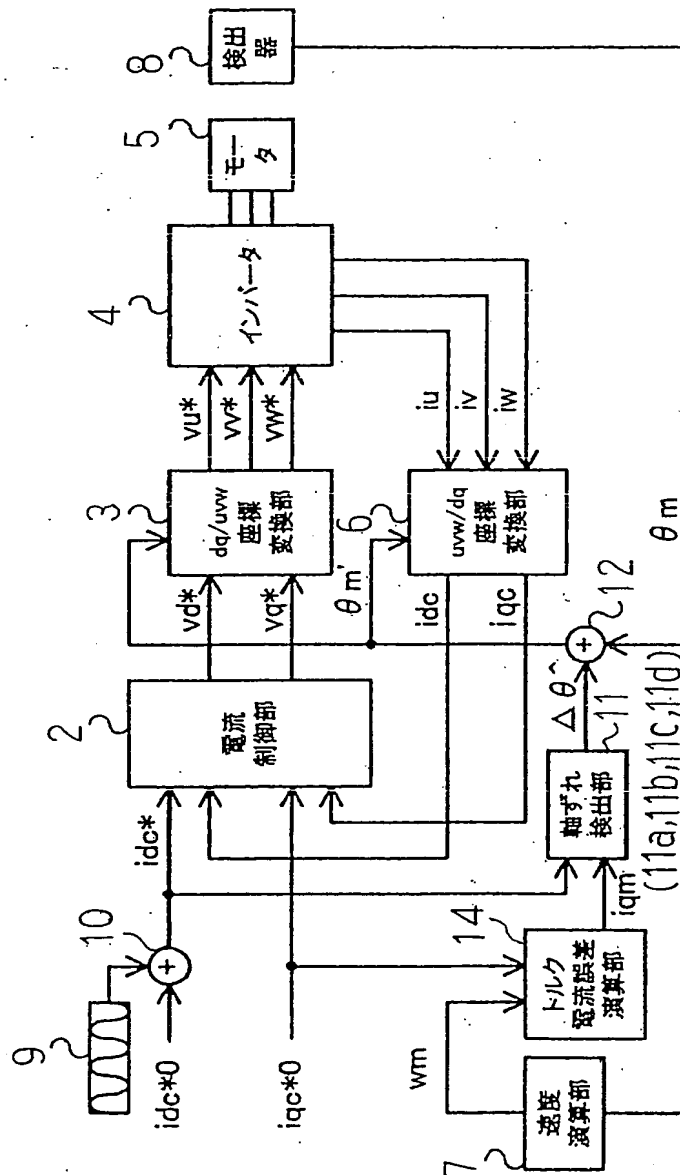[FIG. 7]

      1:    VELOCITY CONTROL UNIT

      2:    CURRENT CONTROL UNIT

      3:    dq/uvw COORDINATE CONVERTING UNIT

      4:    INVERTER

      5:    MOTOR

      6:    uvw/dq COORDINATE CONVERTING UNIT

      7:    VELOCITY CALCULATION UNIT

      8:    DETECTOR

      11:   AXIAL MISALIGNMENT DETECTING UNIT

      13:   POSITION CONTROL UNIT

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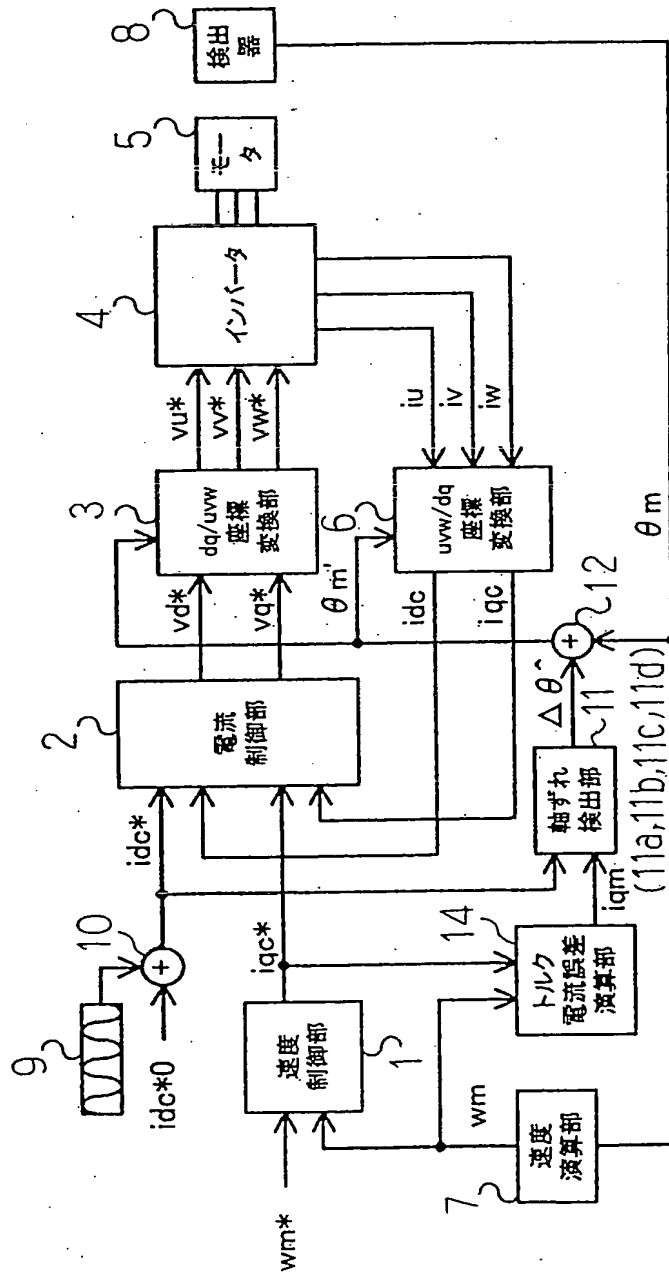第8図   Fig.8

[FIG. 8]

    2:    CURRENT CONTROL UNIT

    3:    dq/uvw COORDINATE CONVERTING UNIT

    4:    INVERTER

    5:    MOTOR

    6:    uvw/dq COORDINATE CONVERTING UNIT

    7:    VELOCITY CALCULATION UNIT

    8:    DETECTOR

    11:   AXIAL MISALIGNMENT DETECTING UNIT

    14:   TORQUE CURRENT ERROR CALCULATION UNIT

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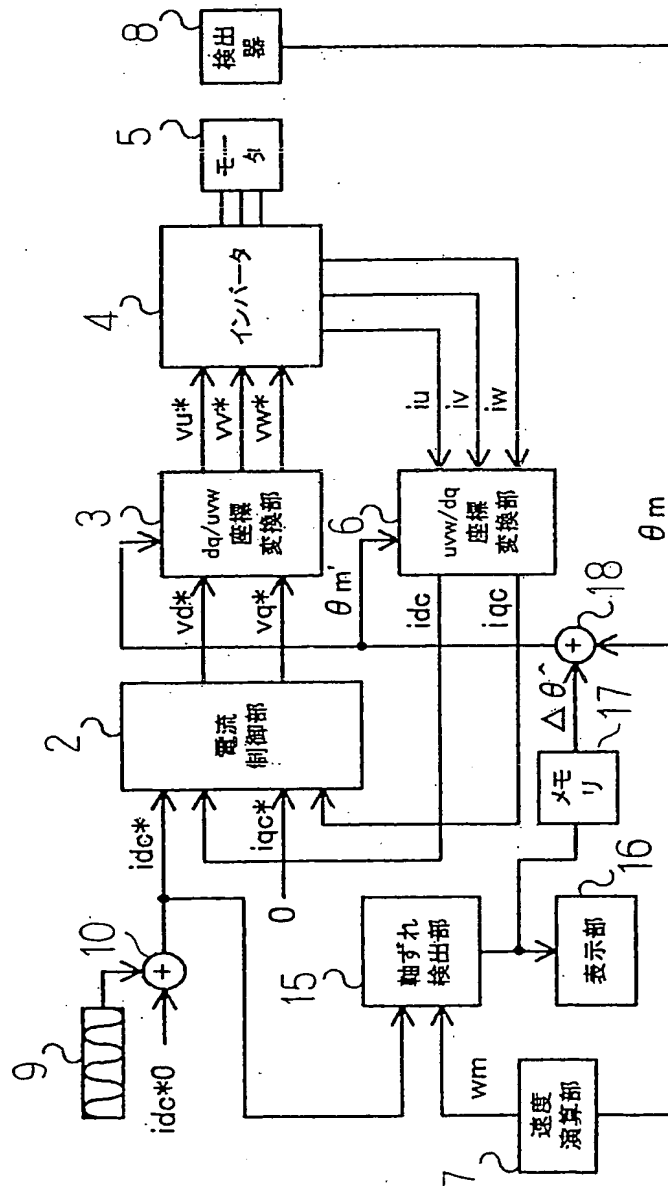Darryl Mexic   202-293-7060
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~~第9図~~ Fig. 9

[FIG. 9]

1: VELOCITY CONTROL UNIT

2: CURRENT CONTROL UNIT

3: dq/uvw COORDINATE CONVERTING UNIT

4: INVERTER

5: MOTOR

6: uvw/dq COORDINATE CONVERTING UNIT

7: VELOCITY CALCULATION UNIT

8: DETECTOR

11: AXIAL MISALIGNMENT DETECTING UNIT

14: TORQUE CURRENT ERROR CALCULATION UNIT

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第10図   Fig.10

[FIG. 10]

2: CURRENT CONTROL UNIT

3: dq/uvw COORDINATE CONVERTING UNIT

4: INVERTER

5: MOTOR

6: uvw/dq COORDINATE CONVERTING UNIT

7: VELOCITY CALCULATION UNIT

8: DETECTOR

15: AXIAL MISALIGNMENT DETECTING UNIT

16: DISPLAY UNIT

17: MEMORY